



Illinois Wesleyan University Digital Commons @ IWU

John Wesley Powell Student Research
Conference

2011, 22nd Annual JWP Conference

Apr 9th, 2:35 PM - 3:35 PM

Fluorescent Studies of Peptidic Hemoglobin Binding Ligands

Chris Brackett

Illinois Wesleyan University

Brian Brennan, Faculty Advisor

Illinois Wesleyan University

Follow this and additional works at: <http://digitalcommons.iwu.edu/jwprc>

 Part of the [Chemistry Commons](#)

Chris Brackett and Brian Brennan, Faculty Advisor, "Fluorescent Studies of Peptidic Hemoglobin Binding Ligands" (April 9, 2011). *John Wesley Powell Student Research Conference*. Paper 4.
<http://digitalcommons.iwu.edu/jwprc/2011/posters2/4>

This Event is brought to you for free and open access by The Ames Library, the Andrew W. Mellon Center for Curricular and Faculty Development, the Office of the Provost and the Office of the President. It has been accepted for inclusion in Digital Commons @ IWU by the faculty at Illinois Wesleyan University. For more information, please contact digitalcommons@iwu.edu.

©Copyright is owned by the author of this document.

Poster Presentation P8

**FLUORESCENT STUDIES OF PEPTIDIC HEMOGLOBIN
BINDING LIGANDS**

Chris Brackett and Brian Brennan*

Chemistry Department, Illinois Wesleyan University

Sickle cell disease is a disorder that affects red blood cells, causing them to form the characteristic “sickle-shape”. My research is focused on studying the interactions between peptidic hemoglobin binding ligands and sickle cell hemoglobin using fluorescence techniques. By better understanding the way in which these ligands interact with the protein surface, we are put in a position to design novel therapeutic agents. I have successfully synthesized ligands, labeled them with a fluorescent molecule, and have begun investigating the ligand-hemoglobin interactions.